

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13M		Page 1 of 6
Title: Commodity Specific Requirements for Apples		
Revision: 2	Replaces: 01/01/01	Effective: 06/01/02

1. Purpose:

To provide a listing of PDP identified required compounds for apples.

2. Scope:

This standard operating procedure shall be followed by all laboratories analyzing apples for PDP. This SOP shall be used in conjunction with QC-13, which identifies commodity groupings for selected/single screens, validation purposes, and approved process controls.

3. Outline of Procedure:

- 5.1 Compounds Required for Apple Multi Residue Screens
- 5.2 Required Selected/Single Residue Screens for Apples
- 5.3 Marker Pesticides for Apple Multi and Selected/Single Residue Screens

4. References:

- PDP Program Plans, July – December 2000 and January – June 2001
- PDP Federal/State Meeting, October 31 - November 2, 2000
- PDP 2000-2001 Program Planning Meeting, April 26, 2000
- SOP PDP-QC-13, “Required Compounds, Commodity Groups, and Marker Pesticides”, revision 6, April 1, 2000
- Pesticide Chemical News Guide (PCNG), December 1, 1999

5. Specific Procedures:

This standard operating procedure (SOP) represents minimum PDP requirements and is presented as a general guideline. Each laboratory shall have written procedures that provide specific details concerning how the procedure has been implemented in that laboratory.

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13M		Page 2 of 6
Title: Commodity Specific Requirements for Apples		
Revision: 2	Replaces: 01/01/01	Effective: 06/01/02

5.1 Compounds Required for Apple Multi Residue Screens

Apple Compound	Reported As	Pest Code
Azinphos methyl		042
Captan		011
Carbaryl		102
Chlorpyrifos		160
Cyprodinil		B22
DDE	DDE p,p'	910
	And/or DDE o,p'	911
	Or DDE (total combined)	300
Diazinon		024
Diazinon O-analog		395
Dichlobenil		324
Dicofol	Dicofol o,p'	253
	And/or Dicofol p,p'	254
	Or Dicofol (total combined)	047
Dieldrin		028
Dimethoate		171
Diphenamid		330
Diphenylamine		125
Endosulfan I		900
Endosulfan II		901
Endosulfan sulfate		902
Fenamiphos		236
Fenamiphos sulfone		745
Fenvalerate/Esfenvalerate	Fenvalerate	546
	And esfenvalerate	714
	Or Fenvalerate (total combined)	546
Folpet		126
Heptachlor epoxide		143
Lindane		050
Malathion		052
Malathion O-analog		208
Metalaxyl		607

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13M		Page 3 of 6
Title: Commodity Specific Requirements for Apples		
Revision: 2	Replaces: 01/01/01	Effective: 06/01/02

Apple Compound	Reported As	Pest Code
Methomyl		159
Methoxychlor	Methoxychlor p,p'	275
	Or Methoxychlor (total combined)	055
Myclobutanil		679
Norflurazon		596
Norflurazon desmethyl		720
o-Phenylphenol		083
Omethoate		178
Oxamyl		537
Oxydemeton methyl sulfone		245
Parathion		065
Parathion O-analog		370
Permethrin	Permethrin cis	222
	And Permethrin trans	223
	Or Permethrin (total combined)	539
Phosalone		166
Phosmet		165
Phosphamidon		203
Piperonyl butoxide		070
Pronamide		540
Propargite		623
Pyridaben		ABL
Pyriproxyfen		B24
Simazine		149
Terbacil		152
Tetradifon		108
Thiabendazole		157
Triadimefon		608

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13M		Page 4 of 6
Title: Commodity Specific Requirements for Apples		
Revision: 2	Replaces: 01/01/01	Effective: 06/01/02

5.2 Required Selected/Single Residue Screens for Apples

Compound	Reported As	Pest Code	Lab
Formetanate		723	US1

5.3 Marker Pesticides for Apple Multi and Selected/Single Residue Screens

a. Multiresidue Fruits and Vegetables

Azinphos methyl	DDE p,p'	Diazinon
Dimethoate	Endosulfan I	Methomyl
Permethrin	Propargite	Terbacil
Thiabendazole		

b. Selected/single analyte residue studies utilize the selected analyte as the marker pesticide.

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13M		Page 5 of 6
Title: Commodity Specific Requirements for Apples		
Revision: 2	Replaces: 01/01/01	Effective: 06/01/02

Frances M. Gross

05/15/02

Reviewed By: Frances M. Gross
Presiding Member of PDP QA Committee
New York Department of Agriculture and Markets
Food Laboratory
State Office Campus, Building 7
Albany, New York 12235
(518) 457-5734

Date

Diana Haynes

05/21/02

Reviewed By: Diana Haynes
Quality Assurance Officer, PDP
8609 Sudley Road, Suite 206
Manassas, VA 20110
(703) 330-2300

Date

Martha Lamont

05/21/02

Approved By: Martha Lamont
Director, Monitoring Programs Office
8609 Sudley Road, Suite 206
Manassas, VA 20110
(703) 330-2300

Date

*ORIGINAL SIGNATURE PAGE MAINTAINED BY USDA, AMS, S&T, MONITORING PROGRAMS OFFICE
ELECTRONICALLY REPRODUCED SIGNATURES*

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13M		Page 6 of 6
Title: Commodity Specific Requirements for Apples		
Revision: 2	Replaces: 01/01/01	Effective: 06/01/02

Revision 2

April 2002

Monitoring Programs Office

- Added carbaryl to testing requirements